

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: August 13, 2002, 19:31:38 ; Search time 4930.81 Seconds

(without alignments)
17544.846 Million cell updates/sec

Title: US-09-301-380-1

Perfect score: 4134
Sequence: 1 cttecaaggccccgcatga.....tggtagagagatatttc 4134

Scoring table: IDENTITY_NTC
Gapop 10.0 , Gapext 1.0

Searched: 1797656 seqs, 10463268293 residues

Total number of hits satisfying chosen parameters: 799276

Minimum DB seq length: 15

Maximum DB seq length: 100

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : GenEmbl:*

1: gb.ba:*

2: gb.htg:*

3: gb_in:*

4: gb_on:*

5: gb_ov:*

6: gb_pat:*

7: gb_ph:*

8: gb_pl:*

9: gb_pr:*

10: gb_roi:*

11: gb_sts:*

12: gb_sy:*

13: gb_un:*

14: gb_v1:*

15: em_ba:*

16: em_fun:*

17: em_hum:*

18: em_in:*

19: em_mu:*

20: em_om:*

21: em_or:*

22: em_ov:*

23: em_pat:*

24: em_ph:*

25: em_pi:*

26: em_roi:*

27: em_sts:*

28: em_un:*

29: em_v1:*

30: em_htg_hum:*

31: em_htg_inv:*

32: em_htg_other:*

33: em_htg_inv:*

ALIGNMENTS

RESULT

1 AX099610/c AX099610

LOCUS Sequence 250 from Patent WO0119988. 29 bp DNA

DEFINITION linear PAT 02-APR-2001

ACCESSION AX099610

VERSION 1 GI:13538665

KEYWORDS

SOURCE synthetic construct.

ORGANISM artificial sequence.

REFERENCE 1 (bases 1 to 29)

AUTHORS Jacobs, K., McCoy, J. M., Lavallie, E. R., Collins-Racie, L. A., Evans, C.,

Merberg, D., Treacy, M., Bowman, M. R., Spaulding, V. and Agostino, M. J.

TITLE Sacred proteins and polynucleotides encoding them

PARENT: WO 0119988-A 250-22-MAR-2001; Genetics Institute, Inc. (US)

FEATURES Location/Qualifiers

source /organism="synthetic construct"

misc_feature /db_xref="taxon:32630"

/note="oligonucleotide"

/note="biotinylated phosphoamidite residue"

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
------------	-------	--------------------	-------	-------------

BASE COUNT 29 a 33 c 8 g 19 t

ORIGIN

RESULT 5

ROTVP7A

ROTVP7A

DEFINITION Homo sapiens rotavirus 2 (strain HN126) outer capsid protein (VP7)

LOCUS RNA, partial cds.

ACCESSION M37349

VERSION M37349.1

KEYWORDS GI:548266

SOURCE

ORGANISM Human rotavirus 2 (strain HN126) RNA.

REFERENCE J. Virol. 62, 1819-1823 (1988)

AUTHORS Green,K.Y., Sears,J.F., Taniguchi,K., Midhun,K., Hoshino,Y., Gorzilka,M., Nishikawa,K., Urasawa,S., Kapikian,A.Z., Chanock,R.M.

TITLE Prediction of human rotavirus serotype by nucleotide sequence analysis of the VP7 protein gene

JOURNAL J. Virol. 23-SEP-1994

MEDLINE 88188272

FEATURES source

gene

base

1. .87

/organism="Human rotavirus 2"

/strain="C"

/db_xref="taxon:36429"

CDS

1. .>87

/gene="VP7"

/codon_start=1

/product="outer capsid protein"

/protein_id="AA4A7371_1"

/db_xref="GI:548273"

/translation="AEAKNEISDDEWENKTDVNTFEIVASS"

BASE COUNT 33 a 11 c 20 g 23 t

ORIGIN

RESULT 7

ROTVP7AN

ROTVP7AN

DEFINITION Homo sapiens rotavirus 2 (strain V197) outer capsid protein (VP7)

LOCUS RNA, partial cds.

ACCESSION M37353

VERSION M37353.1

KEYWORDS GI:548274

SOURCE

ORGANISM Human rotavirus 2 (strain V197) RNA.

REFERENCE J. Virol. 62, 1819-1823 (1988)

AUTHORS Green,K.Y., Sears,J.F., Taniguchi,K., Midhun,K., Hoshino,Y., Gorzilka,M., Nishikawa,K., Urasawa,S., Kapikian,A.Z., Chanock,R.M.

TITLE Prediction of human rotavirus serotype by nucleotide sequence analysis of the VP7 protein gene

JOURNAL J. Virol. 23-SEP-1994

MEDLINE 88188272

FEATURES source

gene

base

1. .87

/organism="Human rotavirus 2"

/strain="V197"

/db_xref="taxon:36429"

CDS

1. .87

/gene="VP7"

/codon_start=1

/product="outer capsid protein"

/protein_id="AA4A7360_1"

/db_xref="GI:48267"

/translation="PEAKNEISDDEWENKTDVNTFEIVASS"

BASE COUNT 34 a 11 c 19 g 23 t

ORIGIN

RESULT 6

ROTVP7AM

ROTVP7AM

DEFINITION Homo sapiens rotavirus 2 (strain C) outer capsid protein (VP7) RNA, partial cds.

ACCESSION M37352

BASE COUNT 6

ORIGIN

RESULT 6

ROTVP7AM

ROTVP7AM

DEFINITION Homo sapiens rotavirus 2 (strain C) outer capsid protein (VP7) RNA, partial cds.

ACCESSION M37352

GenCore version 4.5						
Copyright (c) 1993 - 2000 Compugen Ltd.						
OM nucleic - nucleic search, using sw model						
Run on: August 13, 2002, 20:24:26 ; Search time 416.67 Seconds						
(without alignments)						
17034.402 Million cell updates/sec						
Title: U5-09-301-380-1	c	10	26.4	0.6	50	21
Perfect score: 4134	c	11	26	0.6	82	17
Sequence: 1 ctccaaggatccccggatga.....tggtagagagatattttc 4134	c	12	26	0.6	96	22
Scoring table: IDENTITY_NUC	c	13	26	0.6	96	22
GapOp 10.0 , Gapext 1.0	c	14	25.8	0.6	71	13
Searched: 1736436 seqs, 858457221 residues	c	15	25.8	0.6	73	13
Minimum DB seq length: 15	c	16	25.4	0.6	88	21
Maximum DB seq length: 100	c	17	25.2	0.6	72	22
Post-processing: Minimum Match 0%	c	18	25	0.6	79	21
Maximum Match 100%	c	19	25	0.6	65	13
Database : Listing first 45 summaries	c	20	25	0.6	67	13
N_Geneseq-032802:*	c	21	25	0.6	70	14
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2: /SIDS1/geodata/geneseq/geneseq -emb1/NA1981.DAT:*	c	23	24.8	0.6	86	16
3: /SIDS1/geodata/geneseq/geneseq -emb1/NA1982.DAT:*	c	24	24.8	0.6	93	22
4: /SIDS1/geodata/geneseq/geneseq -emb1/NA1983.DAT:*	c	25	24.8	0.6	93	22
5: /SIDS1/geodata/geneseq/geneseq -emb1/NA1984.DAT:*	c	26	24.8	0.6	93	22
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7: /SIDS1/geodata/geneseq/geneseq -emb1/NA1986.DAT:*	c	28	24.8	0.6	93	22
8: /SIDS1/geodata/geneseq/geneseq -emb1/NA1987.DAT:*	c	29	24.8	0.6	93	22
9: /SIDS1/geodata/geneseq/geneseq -emb1/NA1988.DAT:*	c	30	24.8	0.6	93	22
10: /SIDS1/geodata/geneseq/geneseq -emb1/NA1989.DAT:*	c	31	24.8	0.6	93	22
11: /SIDS1/geodata/geneseq/geneseq -emb1/NA1990.DAT:*	c	32	24.6	0.6	50	21
12: /SIDS1/geodata/geneseq/geneseq -emb1/NA1991.DAT:*	c	33	24.4	0.6	38	21
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15: /SIDS1/geodata/geneseq/geneseq -emb1/NA1994.DAT:*	c	36	24.2	0.6	95	22
16: /SIDS1/geodata/geneseq/geneseq -emb1/NA1995.DAT:*	c	37	24	0.6	24	21
17: /SIDS1/geodata/geneseq/geneseq -emb1/NA1996.DAT:*	c	38	24	0.6	38	21
18: /SIDS1/geodata/geneseq/geneseq -emb1/NA1997.DAT:*	c	39	24	0.6	38	21
19: /SIDS1/geodata/geneseq/geneseq -emb1/NA1998.DAT:*	c	40	24	0.6	92	21
20: /SIDS1/geodata/geneseq/geneseq -emb1/NA1999.DAT:*	c	41	24	0.6	92	22
21: /SIDS1/geodata/geneseq/geneseq -emb1/NA2000.DAT:*	c	42	24	0.6	100	24
22: /SIDS1/geodata/geneseq/geneseq -emb1/NA2001.DAT:*	c	43	23.8	0.6	37	21
23: /SIDS1/geodata/geneseq/geneseq -emb1/NA2001B.DAT:*	c	44	23.8	0.6	48	21
24: /SIDS1/geodata/geneseq/geneseq -emb1/NA2002.DAT:*	c	45	23.8	0.6	87	19
ALIGNMENTS						
RESULT 1						
AAK51341/c	XX					
AAK51341 standard; DNA; 91 BP.	XX					
AAK51341;	XX					
DT (06-NOV-2001) (first entry)	XX					
Human bone marrow expressed single exon probe SEQ ID NO: 25898.	XX					
Human: bone marrow expressed exon; gene expression analysis; probe;	XX					
KW microarray; cancer; leukaemia; lymphoma; myeloma; ss.	XX					
OS Homo sapiens.	XX					
PN WO200157276-A2.	XX					
PD 09-AUG-2001.	XX					
SUMMARIES						
Result No.	Score	Query Match Length	DB ID	Description		
c 1	91	2.2	91 22 ARK51241	Human bone marrow	c 10 26.4 0.6 50 21	Human NR-CAM gene
c 2	91	2.2	91 22 ARK51240	probe #26094 used	c 11 26 0.6 82 17	Murine P57KTP2 gen
c 3	50	1.2	51 22 ARK26826	Human SNP oligonucle	c 12 26 0.6 96 22	Probe #14634 for g
c 4	48.8	1.2	60 21 ARK28172	Human NR-CAM gene	c 13 26 0.6 96 22	Probe #18109 used
c 5	38	0.9	38 21 ARK38153	Human NR-CAM gene	c 14 25.8 0.6 71 13	Universal promoter
c 6	28.8	0.7	97 21 ARK14618	Human secreted pro	c 15 25.8 0.6 73 13	Universal promoter
c 7	28	0.7	29 19 ARW40897	probe for coding s	c 16 25.4 0.6 88 21	Primer PRL5' for
c 8	28	0.7	29 21 ARK61677	probe used to isol	c 17 25.2 0.6 72 22	MBP/BMP fusion con
c 9	0.7	29 22 ARK98540	human cDNA clone C	c 18 25 0.6 67 13	Antisense Nr-CAM 1	
				c 19 25 0.6 65 13	Universal promoter	
				c 20 25 0.6 70 14	Universal promoter	
				c 21 25 0.6 73 13	Human FACC intron	
				c 22 25 0.6 93 22	Human gene signatu	
				c 23 24.8 0.6 86 16	Human gene signatu	
				c 24 24.8 0.6 93 22	Human breast cell	
				c 25 24.8 0.6 93 22	Human foetal liver	
				c 26 24.8 0.6 93 22	Human secreted pro	
				c 27 24.8 0.6 93 22	Human brain expres	
				c 28 24.4 0.6 93 22	Human bone marrow	
				c 29 24.4 0.6 93 22	Probe #13714 for g	
				c 30 24.8 0.6 93 22	Probe #1777 used t	
				c 31 24.8 0.6 93 22	Human Nr-CAM gene	
				c 32 24.6 0.6 50 21	Antisense Nr-CAM 2	
				c 33 24.4 0.6 38 21	Fibroblaste succin	
				c 34 24.4 0.6 92 22	Gene expression pr	
				c 35 24.2 0.6 95 22	Human Nr-CAM gene	
				c 36 24.2 0.6 24 21	Antisense Nr-CAM 1	
				c 37 24 0.6 37 21	Human Nr-CAM gene	
				c 38 24 0.6 37 21	CDNA encoding huma	
				c 39 24 0.6 38 21	Colon tumour relat	
				c 40 24 0.6 92 22	Human prostate can	
				c 41 24 0.6 92 22	Antisense Nr-CAM 1	
				c 42 24 0.6 100 24	Human Nr-CAM gene	
				c 43 23.8 0.6 37 21	Trimmed enzyme sig	
				c 44 23.8 0.6 48 21		
				c 45 23.8 0.6 87 19		

CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes, cancer
 CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
 CC (e.g. cancers of the bladder, brain, breast, colon and kidney),
 CC leukaemia), diseases of the nervous system and an infection of pathogenic
 CC organisms.
 XX sequence 51 BP; 14 A; 13 C; 11 G; 12 T; 1 other;

Query Match 1.2%; Score 50; DB 22; Length 51;
 Best Local Similarity 98.0%; Pred. No. 0.00014; Indels 0; Gaps 0;
 Matches 50; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Db 1 gttagaggttaaaggcgtccatactgatcacagccctaaatcttgg 1227

RESULT 4 AA238172
 ID AA238172 standard; DNA; 60 BP.
 XX AC AA238172;
 AC AC
 DT 14-FEB-2000 (first entry)
 XX DE Human NR-CAM gene fragment.
 XX KW NR-CAM; neuron-glia-related cell adhesion molecule; cell proliferation;
 KW tumorigenesis; malignancy; cancer; leukemia; hyperproliferative disorder;
 KW degenerative disorder; growth deficiency; trauma; wound; tumor; diabetes;
 KW systemic lupus erythematosus; demyelinating disease; growth; human; ss.
 OS Homo sapiens.
 PN WO9955380-A1.
 PD 04-NOV-1999.
 XX PR 99WO-US09039.
 XX PR 27-APR-1998; 98US-0083152.
 XX PR 14-DEC-1998; 98US-0112098.
 XX PA (PACI-) PACIFIC NORTHWEST CANCER FOUND.
 XX PI Murphy GP, Boynton AL, Sehgal A;
 XX DR WPI; 2000-023268/02.
 XX PT Use of neuron-glia-related cell adhesion molecule for developing agents
 PT for the diagnosis and treatment of e.g. cancers, hyperproliferative
 PT disorders, growth deficiencies, degenerative disorders, trauma or
 PT wounds -
 XX PS Disclosure; Fig 2C; 183pp; English.
 CC The invention relates to the use of neuron-glia-related cell adhesion
 CC molecule (Nr-CAM) as a marker for diagnosing, treating, inhibiting or
 CC preventing disorders involving cell proliferation. An antisense nucleic
 CC acid complementary to at least a portion of an RNA transcript of a
 CC Nr-CAM gene can be used to inhibit hyperproliferation of a tumor cell,
 CC for the treatment of tumorigenesis. Agents which inhibit Nr-CAM function
 CC can be used to treat or prevent malignancies, e.g. brain cancer,
 CC leukemia, B cell lymphoma, premalignant conditions, benign tumors,
 CC hyperproliferative disorders or benign dysplastic disorders. Such
 CC treatment is especially useful for treating glioblastoma, glioma,
 CC meningioma, astrocytoma, medulloblastoma, neuroectodermal cancer and
 CC neuroblastoma, especially glioblastoma multiforme. Agents which promote
 CC Nr-CAM function may also be used to treat or prevent degenerative
 CC disorders, growth deficiencies, hypoproliferative disorders, physical
 CC trauma, lesions or wounds. In particular, they can be used for treating
 CC e.g. traumatic, ischemic, malignant and degenerative lesions and
 CC alcoholic cerebellar degeneration. Also described is the treatment of
 CC lesions associated with systemic diseases e.g. diabetes or systemic lupus
 CC erythematosus. Lesions caused by toxic substances e.g. alcohol, lead or
 CC other toxins; and demyelinated lesions of the nervous system, in which a
 CC portion of the nervous system is destroyed or injured by a demyelinating
 CC disease e.g. multiple sclerosis, HIV-associated myelopathy, transverse
 CC myelopathy of various etiologies, progressive multifocal
 CC leukoencephalopathy or central pontine myelinolysis; or lesions of the
 CC central or peripheral nervous systems. In addition, agents which promote
 CC Nr-CAM function can be promoted to increase growth of animals (e.g. cows,

Best Local Similarity 88.3%; Pred. No. 0.00034; Indels 7; Gaps 0;
 Matches 53; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Db 1 agggtaatgtcaatcgatcgttaataatgcggaaaaaaagcgcttatctcggg 60

RESULT 5 AA238153
 ID AA238153 standard; DNA; 38 BP.
 XX AC AA238153;
 XX DT 14-FEB-2000 (first entry)
 XX DE Human NR-CAM gene fragment (basepairs 4097-4134).
 XX KW Nr-CAM-neuron-glia-related cell adhesion molecule; cell proliferation;
 KW tumorigenesis; malignancy; cancer; leukemia; hyperproliferative disorder;
 KW degenerative disorder; growth deficiency; trauma; wound; tumor; diabetes;
 KW systemic lupus erythematosus; demyelinating disease; growth; human; ss.
 OS Homo sapiens.
 PN WO9955380-A1.
 PD 04-NOV-1999.
 XX PR 27-APR-1998; 98US-0083152.
 PR 14-DEC-1998; 98US-0112098.
 XX PA (PACI-) PACIFIC NORTHWEST CANCER FOUND.
 XX PI Murphy GP, Boynton AL, Sehgal A;
 XX DR WPI; 2000-023268/02.
 XX PT Use of neuron-glia-related cell adhesion molecule for developing agents
 PT for the diagnosis and treatment of e.g. cancers, hyperproliferative
 PT disorders, growth deficiencies, degenerative disorders, trauma or
 PT wounds -
 XX PS Disclosure; Fig 2C; 183pp; English.
 CC The invention relates to the use of neuron-glia-related cell adhesion
 CC molecule (Nr-CAM) as a marker for diagnosing, treating, inhibiting or
 CC preventing disorders involving cell proliferation. An antisense nucleic
 CC acid complementary to at least a portion of an RNA transcript of a
 CC Nr-CAM gene can be used to inhibit hyperproliferation of a tumor cell,
 CC for the treatment of tumorigenesis. Agents which inhibit Nr-CAM function
 CC can be used to treat or prevent malignancies, e.g. brain cancer,
 CC leukemia, B cell lymphoma, premalignant conditions, benign tumors,
 CC hyperproliferative disorders or benign dysplastic disorders. Such
 CC treatment is especially useful for treating glioblastoma, glioma,
 CC meningioma, astrocytoma, medulloblastoma, neuroectodermal cancer and
 CC neuroblastoma, especially glioblastoma multiforme. Agents which promote
 CC Nr-CAM function may also be used to treat or prevent degenerative
 CC disorders, growth deficiencies, hypoproliferative disorders, physical
 CC trauma, lesions or wounds. In particular, they can be used for treating
 CC e.g. traumatic, ischemic, malignant and degenerative lesions and
 CC alcoholic cerebellar degeneration. Also described is the treatment of
 CC lesions associated with systemic diseases e.g. diabetes or systemic lupus
 CC erythematosus. Lesions caused by toxic substances e.g. alcohol, lead or
 CC other toxins; and demyelinated lesions of the nervous system, in which a
 CC portion of the nervous system is destroyed or injured by a demyelinating
 CC disease e.g. multiple sclerosis, HIV-associated myelopathy, transverse
 CC myelopathy of various etiologies, progressive multifocal
 CC leukoencephalopathy or central pontine myelinolysis; or lesions of the
 CC central or peripheral nervous systems. In addition, agents which promote
 CC Nr-CAM function can be promoted to increase growth of animals (e.g. cows,

Query Match

1.2%; Score 48.8; DB 21; Length 60;

CC	horses, pigs, goats, deer, chickens) and plants (particularly edible
CC	plants, e.g., tomatoes, melons, lettuce, carrots, potatoes, and other
CC	vegetables), particularly those that are food or material sources. They
CC	can also be used in vitro e.g., to expand cells e.g. stem cells, progenitor cells, muscle cells, fibroblasts, or liver cells to grow
CC	cells/tissue in vitro prior to administration to a patient. The products
CC	can also be used for detection, diagnosis and production of animal
CC	models. The present sequence represents a previously cloned human Nr-CAM
CC	gene (accession no. AAU55258) fragment.
SQ	sequence 38 BP; 12 A; 5 C; 7 G; 14 T; 0 other;
RESULT	6
ID	AAC14618
ID	AAC14618 standard; cDNA; 97 BP.
XX	
AC	AAC14618;
XX	
DT	06-OCT-2000 (first entry)
XX	
DE	Human secreted protein 5' EST, SEQ ID NO: 18693.
XX	
KW	Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation; gene therapy; chromosome mapping; ss.
XX	
OS	Homo sapiens.
XX	
PN	EP1033401-A2.
XX	
PD	2000-02-26.
XX	
PF	21-FEB-2000; 2000BP-0200610.
XX	
PR	26-FEB-1999; 99US-01122487.
XX	
PA	(GEST) GENSET.
XX	
PI	Dumas Milne Edwards J, Duclert A, Giordano J;
XX	
DR	WPI; 2000-500381/45.
XX	
PT	New nucleic acid that is a 5' expressed sequence tag (5' EST) for obtaining cDNAs and genomic DNAs that correspond to 5' ESTs and for diagnostic, forensic, gene therapy and chromosome mapping procedures -
PT	Claim 1; SEQ ID 18693; 71pp + CD-ROM; English.
XX	
CC	The present sequence is one of a large number of 5' ESTs derived from mRNAs encoding secreted proteins. No ORF has yet been conclusively identified within the present sequence. The 5' ESTs were prepared from total human RNAs or polyA+ RNAs derived from 30 different tissues. EST sequences usually correspond mainly to the 3' untranslated region (UTR) of the mRNA because they are often obtained from oligo-dT primed cDNA libraries. Such ESTs are not well suited for isolating cDNA sequences derived from the 5' ends of mRNAs and even in those cases where longer cDNA sequences have been obtained, the full 5' UTR is rarely included.
CC	5' ESTs are derived from mRNAs with intact 5' ends and can therefore be used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic, gene therapy and chromosome mapping procedures. They are used to obtain upstream regulatory sequences and to design expression and secretion vectors.
XX	
SQ	Sequence 97 BP; 43 A; 8 C; 28 G; 14 T; 4 other;

Qy	3853	aaaaaagagatagtgaccacagccatgttgcgtatggaaagggttaatggccatgc	3912	Query Match Best Local Similarity 60.0%; Pred. No. 3.8e+02; Mismatches 3; Indels 0; Gaps 0;
Db	21	aatgaagaqaaaaacaaacagacgcgttgatgtatggaaasmagagaasamagatcttgc	80	
Qy	3913	aatgaggatgt 3922		
Db	81	gatgaggatg 90		
RESULT	7			
AAV40897/C				
ID	AAV40897	standard; DNA; 29 BP.		
XX				
AC				
XX				
DT	25-SEP-1998	(first entry)		
XX				
DE	Probe for coding sequence of clone C0722-1.			
XX				
KW	Human; nutritional supplement; cell proliferation/differentiation;			
KW	cytokine; immunostimulant; immunosuppressant; haemopoiesis regulator;			
KW	receptor/ligand activity; cadherin/tumour invasion suppressor; probe;			
XX	anti-inflammatory; tumour inhibitor; clone C0722-1; ss.			
OS	Synthetic.			
OS	Homo sapiens.			
XX				
PN	W09824905-A2.			
XX				
PD	11-JUN-1998.			
XX				
PF	05-DEC-1997; 97WO-US22211.			
XX				
PR	03-DEC-1997; 97US-0984516.			
PR	06-DEC-1996; 96US-0762216.			
XX				
PA	(GEMY) GENETICS INST INC.			
XX				
PI	Agostino MJ, Jacobs K, Lavallie ER, McCoy JM, Merberg D;			
PI	Racie LA, Spaulding V, Tracy M;			
XX				
DR	WPI; 1998-333324/29.			
XX				
PT	New isolated polynucleotides encoding secreted polypeptides -			
PT	isolated from a human foetal kidney cDNA library; a human adult			
PT	blood cDNA library or a human adult brain cDNA library			
RS	Disclosure; Page 93; 109pp; English.			
XX				
CC	this sequence represents a probe for the coding sequence of clone			
CC	C0722-1 of the invention. The clone was isolated from a human adult			
CC	brain cDNA library. The DNAs and proteins can be used as nutritional			
CC	sources or supplements, or may exhibit cytokine and cell			
CC	proliferation/differentiation activity, immune stimulating or suppressing			
CC	activity, haemopoiesis regulating activity, receptor/ligand activity,			
CC	anti-inflammatory activity, cadherin/tumour invasion suppressor activity,			
CC	tumour inhibition activity or other activities.			
XX				
SQ	Sequence 29 BP; 7 A; 9 C; 4 G; 8 T; 1 other;			
Query Match	0.7%	Score 28; DB 19; Length 29;		
Best Local Similarity	96.6%	Pred. No. 3e+02; Mismatches 0; Indels 0; Gaps 0;		
Matches	28;	Conservative		
QY	75	aaggaaattcgtgtgtggatctcgcag	103	

RESULT 10
 DE Murine p57KIP2 gene translation initiation region.
 XX
 ID AA238180/C
 KW Cyclin-dependent kinase inhibitor; CDK; CDI; P57KIP2; cell cycle;
 XX
 KW cancer; hyperplasia; ulcer; hyperproliferation; hypoproliferation;
 AC AA238180;
 XX
 DT 14-FEB-2000 (first entry)
 XX
 DE Human Nr-CAM gene specific primer Brn307.
 XX
 KW Nr-CAM; neuron-glia-related cell adhesion molecule; cell proliferation;
 KW tumorigenesis; malignancy; cancer; leukemia; hyperproliferative disorder;
 KW degenerative disorder; growth deficiency; trauma; wound; tumor; diabetes;
 KW systemic lupus erythematosus; demyelinating disease; PCR primer; ss.
 OS Synthetic.
 OS Homo sapiens.
 XX
 PN WO9955380-A1.
 XX
 PD 04-NOV-1999.
 XX
 PR 27-APR-1999; 99WO-US09039.
 PR 27-APR-1998; 98US-0112098.
 XX
 PA (PACI-) PACIFIC NORTHWEST CANCER FOUND.
 XX
 PI Murphy GP, Baynton AL, Sehgal A;
 XX
 DR WPI; 2000-023268/02.
 XX
 PT Use of neuron-glia-related cell adhesion molecule for developing agents
 PT for the diagnosis and treatment of e.g. cancers, hyperproliferative
 PT disorders, growth deficiencies, degenerative disorders, trauma or
 PT wounds -
 XX
 PS Examples; Page 124; 183pp; English.
 XX
 CC The invention relates to the use of neuron-glia-related cell adhesion
 molecule (Nr-CAM) as a marker for diagnosing, treating, inhibiting or
 preventing disorders involving cell proliferation. An antisense nucleic
 acid complementary to at least a portion of an RNA transcript of a
 CC Nr-CAM gene can be used to inhibit hyperproliferation of a tumor cell,
 for the treatment of tumorigenesis. Agents which inhibit and promote
 CC Nr-CAM function can be used for the treatment of various diseases and
 CC disorders (see AA238152 for a detailed description). The products can
 also be used for detection, diagnosis and production of animal models.
 CC sequences AA238179-80 represent primers specific for the human Nr-CAM
 CC gene.
 XX
 SQ Sequence 50 BP; 15 A; 11 C; 11 G; 13 T; 0 other;
 XX
 PS Query Match Best Local Similarity 0.6%; Score 26; DB 21; Length 50;
 Matches 30; conservative 0; Mismatches 6; Indels 0; Gaps 0;
 OY 1399 gttatctatgtggcaatgtgcctatgtatggat 1434
 Db 50 GTATGGGATCCCAATGCTCTATGATATGGAT 15
 RESULT 11
 ID AAT44495/C
 XX AAT44495 standard; DNA; 82 BP.
 AC
 XX AAT44495;
 DT 22-FEB-1997 (first entry)
 XX
 DE Murine p57KIP2 gene translation initiation region.
 XX
 ID AA238180
 KW Cyclin-dependent kinase inhibitor; CDK; CDI; P57KIP2; cell cycle;
 XX
 KW diagnosis; gene therapy; ss.
 XX
 OS Mus sp.
 XX
 FH Key Location/Qualifiers
 FH exon 1..15
 FT /*tag= a
 FT /note= "3' end of exon sequence"
 FT intron
 FT 16..28 /*tag= b
 FT /note= "base n at position 22 denotes an approx.
 FT 200 bp intronic sequence not provided in
 FT Fig 4"
 FT exon 29..82
 FT /*tag= c
 FT /codon_start= 39
 FT /note= "there is an alternative codon start site
 FT at position 78 for use with B and B'"
 FT misc_feature 29
 FT /*tag= d
 FT /label= A
 FT /note= "p57 acceptor site A"
 FT misc_feature 67
 FT /*tag= e
 FT /label= B
 FT /note= "alternative acceptor site B"
 FT misc_feature 70
 FT /*tag= f
 FT /note= "alternative acceptor site B'"
 FT misc_feature 70
 FT /*tag= B'
 FT /note= "alternative acceptor site B'"
 PN WO9631134-A1.
 XX
 PD 10-OCT-1996.
 XX
 PR 03-APR-1996; 96WO-US04563.
 PR 03-APR-1995; 95US-0415655.
 PA (SIOK) SLOAN KETTERING INST CANCER RBS.
 XX
 Lee M, Massague J;
 XX
 DR WPI; 1996-164971/46.
 DR P-PSDB; AAW01438.
 XX
 PT Mammalian p57-KIP2 and related DNA - used to develop prods. useful
 PT for diagnosis and treatment of hyper- and hypo-proliferative
 PT disorders
 XX
 PS Disclosure; Fig 4; 98pp; English.
 XX
 CC 3 Distinct cDNA clones (AAT44496-98) are derived from genomic DNA
 CC (AAT44495) in the translation start region of the murine gene
 CC (see also AAT44494) coding for cyclin-dependent kinase inhibitor
 CC p57KIP2 (AAW01437). These result from splicing at position A,
 CC leading to the full-length (349-amino acid) protein having the
 CC N-terminal sequence shown in AAW01438, or alternative splicing at
 CC positions B or B', resulting in a 335-amino acid product,
 CC designated p57KIP2B. The intron sequence in the genomic DNA was
 CC identified by PCR analysis (see also AAT4500-01).
 XX
 SQ Sequence 82 BP; 21 A; 27 C; 21 G; 12 T; 1 other;
 XX
 PS Query Match Best Local Similarity 0.6%; Score 26; DB 17; Length 82;
 Matches 44; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

us-09-301-380-1.rng

ug 14 08:10:40 2002

search completed: August 13, 2002, 22:49:51
search time 8725 sec
Job time

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Copyright (c) 1993 - 2000 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 13, 2002, 19:38:44 ; Search time 82.1 Seconds
(without alignments)

Scoring table: IDENTITY_NUC

GapPen 10.0 , Gapext 1.0

Searched: 383533 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 576162

Minimum DB seq length: 15

Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*

1: /cgn2_6/podata/1/1na/5A_Comb.seq:*

2: /cgn2_6/podata/1/1na/5B_Comb.seq:*

3: /cgn2_6/podata/1/1na/6A_Comb.seq:*

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5: /cgn2_6/podata/1/1na/PCTUS_Comb.seq:*

6: /cgn2_6/podata/1/1na/backfiles1.seq:*

Pred. NO. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match Length	DB ID	Description
1	25	0	6	70	1 US-08-441-430-9
2	24	0	6	100	4 US-09-564-805-23
3	23.6	0	6	67	4 US-09-205-7698-83
4	23.4	0	6	66	2 US-08-709-874A-15
5	23.4	0	6	66	4 US-09-104-382A-15
6	23	0	6	60	3 US-08-415-655-10
7	22.8	0	6	63	1 US-08-386-495-1
8	22.8	0	6	63	5 PCT-US96-02331-1
9	22.8	0	6	78	1 US-08-446-102-1
10	22.8	0	6	78	1 US-08-446-102-2
11	22.8	0	6	78	4 US-08-657-010-15
12	22.8	0	6	78	4 US-09-566-591-15
13	22.8	0	6	100	4 US-09-242-690A-58
14	22.6	0	5	94	1 US-08-105-483-447
15	22.6	0	5	94	1 US-08-105-483-448
16	22.6	0	5	94	1 US-08-709-209-447
17	22.6	0	5	94	1 US-08-709-209-448
18	22.6	0	5	94	1 US-08-303-277-159
19	22.6	0	5	94	1 US-08-458-101-447
20	22.6	0	5	94	1 US-08-458-101-448
21	22.6	0	5	94	1 US-08-458-101-448
22	22.6	0	5	94	1 US-08-458-101-448
23	22.4	0	5	94	1 US-08-836-561-61
24	22.2	0	5	94	1 US-08-709-209-448
25	22.2	0	5	94	1 US-08-242-663A-3
26	22.2	0	5	77	5 PCT-US93-06132-3
27	22.2	0	5	79	2 US-08-848-356-158

ALIGNMENTS

RESULT	1	US-08-441-430-9
SEQUENCE	9	Application US/08441430
PATENT NO.	568142	
GENERAL INFORMATION:		
APPLICANT:	Buchwald, Manuel	
APPLICANT:	Strathdee, Craig A.	
APPLICANT:	Wavrick, Rachel	
APPLICANT:	Christopher George Porter	
TITLE OF INVENTION:	Fanconi Anemia Type C Gen	
NUMBER OF SEQUENCES:	73	
CORRESPONDENCE ADDRESS:		
ADDRESSEE:	Richard J. Polley, Esq.	
ADDRESS:	Klarquist, Sparkman, Campbell, M	
STREET:	121 S.W. Salmon, Suite 1600	
CITY:	Portland	
STATE:	Oregon	
COUNTRY:	U.S.A.	
ZIP:	97204	
COMPUTER READABLE FORM:		
COMPUTER:	IBM PC compatible	
OPERATING SYSTEM:	MS DOS	
SOFTWARE:	WordPerfect 5.1/ASCII Text File	
CURRENT APPLICATION DATA:		
APPLICATION NUMBER:	US/08441,430	
FILING DATE:	May 15, 1995	
CLASSIFICATION:	435	
PRIOR APPLICATION DATA:		
APPLICATION NUMBER:	U.S. 07/876,285	
FILING DATE:	April 29, 1992	
APPLICATION NUMBER:	U.S. 07/918,313	
FILING DATE:	July 21, 1992	
APPLICATION NUMBER:	U.S. 08/003,963	
FILING DATE:	January 15, 1993	
ATTORNEY/AGENT INFORMATION:		
NAME:	Richard J. Polley, Esq.	
REGISTRATION NUMBER:	28,107	
SEQUENCE CHARACTERISTICS:		
REFERENCE/DOCKET NUMBER:	3812-42824	
TELECOMMUNICATION INFORMATION:		
TELEPHONE:	(503) 226-7391	
TELEFAX:	(503) 228-9446	
INFORMATION FOR SEQ ID NO:	9;	
SEQUENCE LENGTH:	70 base pairs	
TYPE:	Nucleic Acid	
STRANDEDNESS:	Double stranded	
TOPOLOGY:	Linear	
MOLECULE TYPE:	Genomic DNA	

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Sequence 158, APP
Sequence 27, APP
Sequence 68, APP
Sequence 27, APP
Sequence 41, APP
Sequence 10, APP
Sequence 10, APP
Sequence 10, APP
Sequence 10, APP
Sequence 2, APP
Sequence 18, APP
Sequence 12, APP
Sequence 12, APP
Sequence 25, APP
Sequence 22, APP
Sequence 42, APP
Sequence 42, APP
Sequence 186, APP

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SEQUENCE CHARACTERISTICS:
 LENGTH: 60 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 8-08-415-655-10

RESULT 7
 -08-386-495-1/c
 Sequence 1, Application us/08386495
 Patent No. 5755434

GENERAL INFORMATION:
 APPLICANT: Ryner, Lisa C.
 APPLICANT: Baker, Bruce S.
 APPLICANT: Wasserman, Steven A.
 APPLICANT: Castrillon, Diego H.

TITLE OF INVENTION: Methods and Compositions for Altering
 TITLE OF INVENTION: Sexual Behavior
 NUMBER OF SEQUENCES: 11

NUMBER OF SEQUNENCES: 11

NUMBER OF SEQUENCES: 11

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Dehlinger & Associates
 STREET: 350 Cambridge Avenue, Suite 250
 CITY: Palo Alto
 STATE: CA
 COUNTRY: USA
 ZIP: 94306

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT-US96/02331
 FILING DATE: 09-FEB-1996
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 08/386,495
 FILING DATE: 10-FEB-1995
 ATTORNEY/AGENT INFORMATION:
 NAME: Sholtz, Charles K.
 REGISTRATION NUMBER: 38,615
 REFERENCE/DOCKET NUMBER: 8600-0153.41
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 324-0880
 TELEFAX: (415) 324-0360

INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 63 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: 3x repeat probe

PCT-US96/02331-1

RESULT 8
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 Sequence 1, Application PC/TUS9602331
 GENERAL INFORMATION:
 APPLICANT: The Board of Trustees of the Leland Stanford Junior
 University
 APPLICANT: Board of Regents, The University of Texas System
 TITLE OF INVENTION: Methods and Compositions for Altering
 TITLE OF INVENTION: Sexual Behavior
 NUMBER OF SEQUENCES: 15
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Dehlinger & Associates
 STREET: 350 Cambridge Avenue, Suite 250
 CITY: Palo Alto
 STATE: CA
 COUNTRY: USA
 ZIP: 94306

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT-US96/02331
 FILING DATE: 09-FEB-1996
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 08/386,495
 FILING DATE: 10-FEB-1995
 ATTORNEY/AGENT INFORMATION:
 NAME: Sholtz, Charles K.
 REGISTRATION NUMBER: 38,615
 REFERENCE/DOCKET NUMBER: 8600-0153.41
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 324-0880
 TELEFAX: (415) 324-0360

INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 63 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: 3x repeat probe

PCT-US96/02331-1

RESULT 9
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 Db 54 TGAAGAAGATCTATGTGATGAGATGATCTATGTGATGAGATG 5

QY 1608 tgaagatattatgtttatcatgaaatggaaatcaagatg 1657
 Db 54 TGAAGAAGATCTATGTGATGAGATGATCTATGTGATGAGATG 5

COMPUTER READABLE FORM:
 ZIP: 20004-2400
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FastSEQ Version 1.5
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/446,102
 FILING DATE: 19-MAR-1995
 CLASSIFICATION: 435
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Remenick, James
 REGISTRATION NUMBER: 36,902
 REFERENCE/DOCKET NUMBER: 16865.0199
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-639-7700
 TELEFAX: 202-639-7890
 TELEX:
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 78 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 FRAGMENT TYPE:
 ORIGINAL SOURCE:
 ;US-08-446-102-2

RESULT 11
 US-08-617-010C-15
 Sequence 15 Application US/08617010C
 Patent No. 619444
 GENERAL INFORMATION:
 APPLICANT: Robert K ster
 TITLE OF INVENTION: DNA SEQUENCING BY MASS SPECTROMETRY
 NUMBER OF SEQUENCES: 21
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Heller Ehrman White & McAuliffe
 STREET: 4220 Executive Square, 7th Floor
 CITY: La Jolla
 STATE: CA
 COUNTRY: USA
 ZIP: 92037-9103
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: ASCII
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/617,010C
 FILING DATE: 18-MAR-1996
 CLASSIFICATION: 435
 PRIORITY APPLICATION DATA:

TITLE OF INVENTION: STRAIN
 NUMBER OF SEQUENCES: 462
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Curtis, Morris & Safford
 STREET: 530 Fifth Avenue
 CITY: New York
 STATE: NY
 COUNTRY: USA
 ZIP: 10036
 COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/105,483
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/105,483
 FILING DATE: 12-AUG-1993
 CLASSIFICATION: 424
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 07/847,951
 FILING DATE: 06-MAR-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Frommer, William S.
 REGISTRATION NUMBER: 25,506
 REFERENCE/DOCKET NUMBER: 454310-2400
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 840-3333
 TELEFAX: (212) 840-0712
 INFORMATION FOR SEQ ID NO: 447:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 94 base pairs
 LENGTH: 94 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-08-105-483-447

RESULT 15
 US-08-105-483-448/C
 ; Sequence 448, Application US/08105483
 ; Patent No. 5494807
 GENERAL INFORMATION:
 APPLICANT: Paoletti, Enzo
 TITLE OF INVENTION: GENETICALLY ENGINEERED VACCINE
 NUMBER OF SEQUENCES: 462
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Curtis, Morris & Safford
 STREET: 530 Fifth Avenue
 CITY: New York
 STATE: NY
 COUNTRY: USA
 ZIP: 10036
 COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.25

Query Match 0.5%; Score 22.6; DB 1; Length 94;
 Best Local Similarity 54.1%; Pred. No. 3.2e+03;
 Matches 46; Conservative 0; Mismatches 39; Indels 0; Gaps 0;
 Qy 619 cccccaatggatttacccacccatataattttggatggataatcccttcaagactt 678
 Db 4 CCRCCTTTAGAAACACGGAGATTTATTCCTTGTGGGATCAACTTAAACCTCCT 63
 Qy 679 ccacaaggaggaggtttcgaq 703
 Db 31 TTAGAAAAGTAGATAATGAG 7

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/105,483
 FILING DATE: 12-AUG-1993
 CLASSIFICATION: 424
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 07/847,951
 FILING DATE: 06-MAR-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Frommer, William S.
 REGISTRATION NUMBER: 25,506
 REFERENCE/DOCKET NUMBER: 454310-2400
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 840-3333
 TELEFAX: (212) 840-0712
 INFORMATION FOR SEQ ID NO: 448:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 94 base pairs
 LENGTH: 94 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-08-105-483-448

Query Match 0.5%; Score 22.6; DB 1; Length 94;
 Best Local Similarity 54.1%; Pred. No. 3.2e+03;
 Matches 46; Conservative 0; Mismatches 39; Indels 0; Gaps 0;
 Qy 619 cccccaatggatttacccacccatataattttggatggataatcccttcaagactt 678
 Db 91 CCRCCTTTAGAAACACGGAGATTTATTCCTTGTGGGATCAACTTAAACCTCCT 32
 Qy 679 ccacaaggaggaggtttcgaq 703
 Db 31 TTAGAAAAGTAGATAATGAG 7

Search completed: August 13, 2002, 22:42:33
 Job time: 11029 sec

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adapters (Pharmacia), digested with *Not I* and cloned into the *Not I* and *ECO RI* sites of a modified *lacZ* vector.

Pharmacia). Library went through one round of normalization to a Cot = 5. Library constructed by M. Fatima Bonaldo. This library was constructed from the same fetus as the fetal lung library, Soares fetal lung library.

BASE COUNT	16 a	21 c	25 g	23 t
ORIGIN				

BASE COUNT	34	a	10	c	29	g	15	t
ORIGIN								

Query Match: 0.7%; score: 28.8; DB: 9; Length: 85;
 Best Local Similarity: 65.6%; Pred. No.: 8.3e+03;

Query Match 0.7%; Score 27.6; DB 9; Length 88;
 Best Local Similarity 60.8%; Pred. No. 1.8e+04; - - -

Qy	201	actg	204
Db	61	TCTG	64

RESULT 2
AI007269 -----

RESULT 3
BE322578 BE322578 LOCUS mRNA linear ECER-21-ECER-2000

LOCUS ua33h03 r1 Soares_mammary_gland_NBAGC MUS musculus mRNA clone
IMAGE:1348565 5' similar to TR:Q15170 Q15170 ; mRNA sequence.
ACCESSION AI00769
VERSION AI00769.1
KEYWORDS EST.
SOURCE house mouse.

DEFINITION NF006E05IN1F036 Insect herbivory mediated by *Medicago truncatula* cDNA clone
ACCESSION NF006E05IN 5', mRNA sequence.
VERSION BB322578.2 GI:11962897
KEYWORDS EST.
SOURCE barrel medic.
ORGANISM *Medicago truncatula*

ORGANISM MUS musculus
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 88)
 Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubroque, T.,
 Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M.,
 Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B.,
 Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and
 Waterston, R.
TITLE The WashU-HMM Mouse EST Project
JOURNAL Unpublished (1996)
COMMENT Contact: Marra M. N. Mouse EST Project

Eukaryota; Viriplantae; Streptophyta; Embryophyta; Tracheophyta;
 Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
 Rosidae; euRosids I; Fabales; Fabaceae; Papilionoideae; Trifolieae;
 Medicago.
 1 (bases 1 to 84)
 Korth, K., Scott, A.D., Harris, A.R., Gonzales, R.A., Bell, C.J., Flores,
 H.R., Inman, J.T., Weller, J.W. and May, G.D.
 Expressed Sequence Tags from the Samuel Roberts Noble Foundation
 Medicago truncatula Insect herbivory library
 Unpublished (2000)
 On Jul 14, 2000 this sequence version replaced gi:9196355.

WashU-HMMI Mouse EST Project
Washington University School of MedicineP
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LILN ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:697357
Possible reversed clone: similarity on wrong strand
Seq primer: -28m13 rev2 ET from Amersham
High quality sequence stop: 6.

Contact: Kort K. DePauw
 Dept. of Plant Pathology
 University of Arkansas
 217 Plant Science Building, Fayetteville, AR 72701, USA
 Tel: 501 575 5191
 Fax: 501 575 7601
 Email: kkorth@comp.uark.edu
 Medicger Genome Initiative accession: MGI:S:25317
 Insert Length: 855 Std Error: 0.00
 Plate: 006 Row: E Column: 05
 Seq primer: TCACGAGGACACATGAC.
 FEATURES source
 location/Qualifiers
 1 84

source

0 68: score 36 6: DB 10: 1 month 04-

Best Local Similarity 71.4%; Pred. No. 3.3e+04; Mismatches 14; Indels 0; Gaps 0; Matches 35; Conservative 0; Mismatches 14; Indels 0; Gaps 0; Matches 35; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

Query Match 0.6%; Score 26.4; DB 9; Length 100; Best Local Similarity 57.1%; Pred. No. 4.1e+04; Matches 48; Conservative 0; Mismatches 36; Indels 0; Gaps 0; Matches 48; Conservative 0; Mismatches 36; Indels 0; Gaps 0;

RESULT 4

AW101101/C

LOCUS AW101101 100 bp mRNA linear EST 30-NOV-2001

DEFINITION Gm-c1008-2029 5', mRNA sequence.

ACCESSION AW101101

VERSION AW101101.1 GI:6071714

KEYWORDS EST.

SOURCE soybean.

ORGANISM Glycine max

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae; eudicots I; Fabales; Fabaceae; Papilionoideae; Phaseolae; Glycine.

AUTHORS 1 (bases 1 to 100)

Shoemaker, R., Keim, P., Vodkin, L., Erpelding, J., Coryell, V., Khanna, A., Bolla, B., Marra, M., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylie, M., Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y., Person, B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schirk, R., Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Waterston, R., and Wilson, R.

TITLE Unpublished (1999)

JOURNAL Public Soybean EST Project

COMMENT Contact: Shoemaker R/ Public Soybean EST Project

Washington University School of Medicine

444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA

Tel: 314 286 1800

Fax: 314 286 1810

Email: est@wustl.edu

Putative full length read vector to vector length is 101 This clone is available through: ResGen, Invitrogen Corp. 2130 South Memorial Parkway Huntsville, AL 35801 For further information call: (800)-533-4363 or contact via email: ccu@resgen.com

Seq primer: -40RP from Gibco.

Location/Qualifiers

1. .100

FEATURES Source

/organism="Glycine max"

/ab_xref="taxon:3047"

/clone="GENOME SYSTEMS CLONE ID: Gm-c1008-2029"

/clone_1bp="Gm-c1008"

/lab_host="DH10B"

/note="Vector: pSPORT1; Site_1: Sali; Site_2: NotI; This cDNA library was constructed from mRNA isolated from whole young pods, approximately 2cm long, of 12-week-old greenhouse grown plants. The library was prepared using the Life Technologies pSuperscript cDNA library construction kit. Complementary DNA was synthesized from mRNA using a poly (dT) sequence with a NotI restriction site. Sali linkers adapters were ligated to the blunt-ended cDNA fragments followed by NotI digestion. The cDNA fragments were directionally cloned into the NotI-Sali restriction site of the pSPORT1 vector. The ligated cDNA fragments were transformed into E. coli Electromax DH10B host cells. This library was constructed by Dr. Lila Vodkin and Dr. Anu Khanna."

BASE COUNT

29 a 8 c 21 g 13 t

ORIGIN

Query Match 0.6%; Score 26; DB 10; Length 71; Best Local Similarity 62.1%; Pred. No. 4.4e+04; Mismatches 41; Conservative 0; Mismatches 25; Indels 0; Gaps 0; Matches 41; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

RESULT 5

D78209

LOCUS D78209 71 bp mRNA linear EST 23-MAR-1998

DEFINITION EST from 8p21.3-p22 Homo sapiens cDNA clone B6-1-5, mRNA sequence.

ACCESSION D78209

VERSION D78209.1 GI:2104127

KEYWORDS EST.

SOURCE Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.

AUTHORS 1 (bases 1 to 71)

Chinen, K., Isomura, M., Izawa, K., Fujiwara, Y., Ohata, H., Iwanasa, T. and Nakamura, Y.

TITLE Isolation of 45 exon-like fragments from 8p22->p21.3, a region that is commonly deleted in hepatocellular, colorectal, and non-small cell lung carcinomas

JOURNAL Cytogenet. Cell Genet. 75 (2-3), 190-196 (1996)

COMMENT Contact: Yusuke Nakamura

Institute of Medical Science

University of Tokyo

4-6-1 Shirokanedai, Minato-ku, Tokyo 108, Japan

Tel: 81-3-5449-5372

Fax: 81-3-5449-5433

Email: yusuke@ims.u-tokyo.ac.jp.

FEATURES Source

1. .71

/organism="Homo sapiens"

/db_xref="taxon:9605"

/map="8p21.3-p22"

/clone="B6-1-5"

/clone_1bp="EST from 8p21.3-p22"

BASE COUNT

29 a 8 c 21 g 13 t

ORIGIN

Query Match 0.6%; Score 26; DB 10; Length 71; Best Local Similarity 62.1%; Pred. No. 4.4e+04; Mismatches 41; Conservative 0; Mismatches 25; Indels 0; Gaps 0; Matches 41; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

RESULT 6

TA293D12Q/C

LOCUS TA293D12Q

DEFINITION T. brucei sheared genomic DNA clone 293d12, reverse sequence, genomic survey sequence.

ACCESSION ALA85648

VERSION 1

KEYWORDS GSS.

SOURCE Trypanosoma brucei.

REFERENCE 1 (bases 1 to 83)

Query Match 0.6%; Score 26.4; DB 9; Length 100; Best Local Similarity 57.1%; Pred. No. 4.1e+04; Matches 48; Conservative 0; Mismatches 36; Indels 0; Gaps 0; Matches 48; Conservative 0; Mismatches 36; Indels 0; Gaps 0;

RESULT 7

710 atggggaccttattttccatgtccctccaggacaccgcgaaactatctgtt 769

LOCUS 1

DEFINITION ATCAGACTTATTATAAACATGTCATATACAAACGTAANGATATCCCGTA 37

ACCESSION 96

VERSION 1

KEYWORDS GSS.

SOURCE Trypanosoma brucei.

REFERENCE 3 (bases 1 to 83)

Query Match 0.6%; Score 26.4; DB 9; Length 100; Best Local Similarity 57.1%; Pred. No. 4.1e+04; Matches 48; Conservative 0; Mismatches 36; Indels 0; Gaps 0; Matches 48; Conservative 0; Mismatches 36; Indels 0; Gaps 0;

RESULT 8

ATGATATACATCTTATAGACATA 13

LOCUS 1

DEFINITION ATGATATACATCTTATAGACATA 13

ACCESSION 97

VERSION 1

KEYWORDS GSS.

SOURCE Trypanosoma brucei.

REFERENCE 1 (bases 1 to 83)

AUTHORS		TITLE JOURNAL					
Hall, N., Bowman, S., Leonard, N.J., Ormond, D., Harris, E., El-Sayed, N., Hou, L., Melville, S.E., Rajandream, M.A. and Barrell, B.G.		Challenger.ac.uk Direct Submission					
Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and nhl@sanger.ac.uk		Constructed at the Institute for Genomic Research (TIGR), Rockville, MD. Genomic DNA isolated from a cloned population of Trypanosoma brucei (TREU97/4 Gurrat 10.1) was mechanically sheared to give a tight size distribution (4 kb). The $V + 1$ method used for the library construction is described in detail in Smith, H. and Venter, J.C. (Making small insert libraries for whole genome shotgun sequencing projects. In Genome Sequencing: A practical Approach, eds. M. Vaudin and B. Barrell, Oxford University Press, 1999).					
Email: nelsayed@tigr.org		Details of T. brucei sequencing at the Sanger Centre are available at http://www.sanger.ac.uk/Projects/T_brucei/ .					
FEATURES source		at http://www.sanger.ac.uk/Projects/T_brucei/ . Location/Qualifiers					
1. .83		/organism="Trypanosoma brucei" /strain="TREU97/4" /db_xref="taxon:5691" /db_xref="clone:293d12" /clone="293d12"					
BASE COUNT		21 a 18 c 7 g 37 t					
ORIGIN		26 a 20 c 26 g 20 t					
Query Match		0.6%; Score 26; DB 12; Length 83;					
Best Local Similarity		65.5%; Pred. No. 4.8e+04;					
Matches		38; Conservative 0; Mismatches 20;					
LOCUS		Indels 0; Gaps 0;					
DEFINITION		ne19093.s1 NCI-CGAP_Co3 Homo sapiens cDNA clone IMAGE:8817163, similar to gb:56915_cds1 ATP SINEASE GAMMA CHAIN, MITOCHONDRIAL PRECURSOR (HUMAN); mRNA sequence.					
ACCESSION		AA470870 AA470870.1 EST					
VERSION		B6796297.1 GI:14131867					
KEYWORDS		EST. house mouse.					
SOURCE		Mus musculus					
ORGANISM		Mus musculus Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.					
REFERENCE		B6796297 B6796297 UTSW_SM1H9 UTSW Adult Mouse Skeletal Muscle Library Mus musculus cDNA clone UTSW_SM41H9, mRNA sequence.					
AUTHORS		Galardo, R.D., Schageman, J.J., Pertsemidis, A., Garner, H.R., Williams, R.S. and Shohet, R.V.					
TITLE		UT Southwestern Medical Center, Adult Mouse Skeletal Muscle cDNA Library Unpublished (2001)					
JOURNAL		Contact: Schageman, JJ Shohet/Garner Labs University of Texas Southwestern Medical Center 6000 Harry Hines Blvd., NA2.226, Dallas, TX 75390, USA Tel: 214 648 1674					
COMMENT		Email: jeff.schageman@utsouthwestern.edu CDNA library constructed by UTSW as a component of the Program for Genomic Applications (PGA) and the Reynolds Heart Disease Prevention grants for use in cDNA microarray experiments. Sequence Quality: Sequence ends were trimmed based on percentage of ambiguous base calls or 'N's in windowed segments. Sequencing: First-pass sequencing: ABI Prism 377 sequencer and analysis software. Seq primer: M13/pUC Reverse. Location/Qualifiers					
FEATURES source		1. .93 /organism="Mus musculus" /db_xref="taxon:10090" /clone="UTSW_SM41H9" /clone_id="UTSW Adult Mouse Skeletal Muscle Library" /sex="pooled" /tissue_type="Diaphragm/Hind limb muscles" /cell_type="Skeletal muscle" /dev_stage="2 months" /lab_host="DH5a" /note="Vector: PAMP10 (Gibco); Cloned unidirectionally."					
FEATURES source		/organism="Homo sapiens" /db_xref="taxon:9606" /note="Vector: PAMP10 (Gibco); Cloned unidirectionally."					

Qy	3183	atataatgttttattttatgtccatgcacaaat	3211	RESULT	12	AW845547/c	D45290/c	EST	30-DEC-1995
Db	34	ATWNNANTAGATTATATATATNCAT	6	LOCUS	DA5290				
		AW845547		DEFINITION	HWHG2:60	Human cerebral cortex	Homo sapiens	CDNA,	mRNA sequence.
		MRI-CT0058-291199-003-d02	100 bp	VERSION	D45290				
		CT0058	mRNA	ACCESSION	D45290.1				
		Homo sapiens	linear	COMMENT	EST.				
			EST 19-MAY-2000	KEYWORDS					
				ORGANISM	Homo sapiens				
				REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
				AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
				KEYWORDS					
				TITLE					
				JOURNAL					
				COMMENT					
				MEDLINE					
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FEATURES	source	High quality sequence stop: 71.
	Location/Qualifiers	Location/Qualifiers
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	/strain="C57BL/6J"	/strain="C57BL/6J"
	/db_xref="Taxon:10090"	/db_xref="Taxon:10090"
	/clone="UPGC2M0102K08"	/clone="UPGC2M0102K08"
	/clone_1lb="Mouse 10kb plasmid UGCC1M library"	/clone_1lb="Mouse 10kb plasmid UGCC1M library"
	/sex="Male"	/sex="Male"
	/lab_host="E. coli strain XL1-Gold, T1-resistant, F-"	/lab_host="E. coli strain XL1-Gold, T1-resistant, F-"
	/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnases/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi 47321149b AF229072.1), a copy number inducible derivative of plasmid RL. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically competent E. coli XL1-Gold (Stratagene) cells and selected for ampicillin resistance."	/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnases/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi 47321149b AF229072.1), a copy number inducible derivative of plasmid RL. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically competent E. coli XL1-Gold (Stratagene) cells and selected for ampicillin resistance."
BASE COUNT	17 a	10 c
ORIGIN	10 g	27 t
FEATURES	source	High quality sequence stop: 85.
	Location/Qualifiers	Location/Qualifiers
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	/organism="Mus musculus"	/organism="Mus musculus"
	/strain="57/B6"	/strain="57/B6"
	/db_xref="Taxon:10090"	/db_xref="Taxon:10090"
	/clone="IMAGE:3487430"	/clone="IMAGE:3487430"
	/clone_1lb="NCL_CGAP_Mam5"	/clone_1lb="NCL_CGAP_Mam5"
	/tissue_type="tumor, gross tissue"	/tissue_type="tumor, gross tissue"
	/lab_host="DH10B"	/lab_host="DH10B"
	/dev_stage="7 months"	/dev_stage="7 months"
	/note="Organ: mammary; Vector: PCMV-SPORT5; Site:1; Site:2: Notis; Cloned unidirectionally. Primer: Oligo dT. Library constructed by Life Technologies. Investigators providing samples: Lothar Hennighausen/Robin Humphreys, NIH"	/note="Organ: mammary; Vector: PCMV-SPORT5; Site:1; Site:2: Notis; Cloned unidirectionally. Primer: Oligo dT. Library constructed by Life Technologies. Investigators providing samples: Lothar Hennighausen/Robin Humphreys, NIH"
BASE COUNT	35 a	10 c
ORIGIN	22 g	18 t
FEATURES	source	High quality sequence stop: 85.
	Location/Qualifiers	Location/Qualifiers
	0.6%	0.6%
Query Match	Score 25.8; DB 12; Length 71;	Score 25.8; DB 10; Length 85;
Best Local Similarity	60.9%	63.9%
Matches	Pred. No. 5e+04; 42;	Pred. No. 5.5e+04; 39;
Conservative	0; Mismatches 27;	0; Mismatches 39;
Indels	0;	0;
Gaps	0;	0;
BASE COUNT	65 G	65 G
ORIGIN	63 G	63 G
RESULT	15	15
REFERENCE	FRO022001	FRO022001
LOCUS	FRO022001	FRO022001
DEFINITION	GSS sequence, clone 070J16aE2, genomic survey sequence.	GSS sequence, clone 070J16aE2, genomic survey sequence.
ACCESSION	AL014872	AL014872
VERSION	AL014872.1	AL014872.1
KEYWORDS	5' AARAGGAGGAGCTGCAGAGCAATGTTGAGATCTGTGAG 62	5' AARAGGAGGAGCTGCAGAGCAATGTTGAGATCTGTGAG 62
SOURCE	Takifugu rubripes.	Takifugu rubripes.
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Buteleostei; Neoteleostei; Acanthomorpha; Acanthopterygii; Percormorpha; Tetraodontiformes; Tetraodontidae; Takifugu.	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Buteleostei; Neoteleostei; Acanthomorpha; Acanthopterygii; Percormorpha; Tetraodontiformes; Tetraodontidae; Takifugu.
REFERENCE	1 (bases 1 to 99)	1 (bases 1 to 99)
AUTHORS	Elgar, G., Clark, M., Smith, S., Meek, S., Warner, S., Umrania, Y., Williams, G. and Brenner, S.	Elgar, G., Clark, M., Smith, S., Meek, S., Warner, S., Umrania, Y., Williams, G. and Brenner, S.
TITLE	Direct Submission	Direct Submission
JOURNAL	Submitted (08-DEC-1997) MRC Human Genome Mapping Project Resource Centre Hinxton, Cambridge, CB10 1SB. Email: biohelp@hgmpr.mrc.ac.uk	Submitted (08-DEC-1997) MRC Human Genome Mapping Project Resource Centre Hinxton, Cambridge, CB10 1SB. Email: biohelp@hgmpr.mrc.ac.uk
COMMENT	Vector: pBluescript II KS	Vector: pBluescript II KS
VERSION	V-type: phagemid	V-type: phagemid
KEYWORDS	PRIMER: KS	PRIMER: KS
SOURCE	DESCR:	DESCR:
ORGANISM	One pass dye-terminator sequencing of cosmid cloned genomic sequence.	One pass dye-terminator sequencing of cosmid cloned genomic sequence.
FEATURES	source	Location/Qualifiers
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	/db_xref="Taxon:31033"	/db_xref="Taxon:31033"
	/clone_1lb="cosmid 070J16"	/clone_1lb="cosmid 070J16"
	/clone="070J16B2"	/clone="070J16B2"
BASE COUNT	24 a	26 c
ORIGIN	23 g	24 t
	2 others	2 others

Search completed: August 13, 2002, 21:18:23
Job time: 6465 sec